

ABSTRACT OF THE DISCLOSURE

An image forming apparatus includes a plurality of hardware resources provided to carry out image formation. A plurality of application programs perform respective processing of the plurality of hardware resources related to the image formation. A storage device stores rewritable shared data which is used by the application programs in common. A shared-data control unit suspends one of a write-lock request or a read-lock request that is received from one of the application programs when acquisition and/or updating of the shared data is inhibited, and after the acquisition and/or updating of the shared data is allowed, inhibits the acquisition and/or updating of the shared data by other application programs in accordance with the suspended request for the one of the plurality of application programs.

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